

## **CONFORMITY ANALYSIS**

### **Introduction**

The Regional Transportation Improvement Program (RTIP) is the federally required short-range document that implements the long-range Regional Transportation Plan (RTP). The biennial RTIP update is produced on an even year cycle. This RTIP cycle is consistent with the State Transportation Improvement Program (STIP) cycle. The 2006 STIP in the Southern California Association of Governments (SCAG) region was incorporated into the 2006 RTIP for conformity analysis. The Federal Highways Administration (FHWA) and Federal Transit Administration (FTA) approved the 2006 RTIP on October 2, 2006.

#### *Project Description*

RTIP Amendment 06-04 includes 13 non-exempt projects (see project listing). Projects included in the amendment are located within the South Coast Air Basin (SCAB), Salton Sea Air Basin (SSAB), and the Mohave Desert Air Basin (MDAB); therefore this conformity determination is being made for each of these air basins. Amendment 06-04 relies on the regional emissions analysis for the 2004 RTP, as amended, and the 2006 RTIP.

### **Federal Requirements**

Federal and state regulations allow that SCAG, as the designated Metropolitan Planning Organization (MPO), may rely on a previous regional emissions analysis when processing amendments, in the event that certain conditions are met. Section 93.122(g) is the relevant part of the Transportation Conformity rule for this amendment.

### **Conformity Status of Current RTIP and RTP**

On June 7, 2004, the federal conformity determination for the 2004 RTP was issued for the following non-attainment and maintenance areas:

- South Coast Air Basin (SCAB – Ozone, CO, NO<sub>2</sub>, and PM<sub>10</sub>)
- San Bernardino County portion of the Mojave Desert Air Basin (MDAB – PM<sub>10</sub>)
- Coachella Valley portion of the Salton Sea Air Basin (SSAB - PM<sub>10</sub>)
- Imperial County portion of SSAB (Ozone and PM<sub>10</sub>)

The federal conformity determination for the Ventura County portion of the South Central Coast Air Basin (ozone) and the Southeast Desert Modified ozone area was issued by the federal agencies on June 16, 2004. The effective date for the conformity determination for the entire SCAG 2004 RTP, including all of the air basins is June 7, 2004.

On October 2, 2006, the federal agencies approved funding and determined conformity of the 2006 RTIP. The federal funding approval of the 2006 RTIP will expire on October 2, 2008. The 2006 RTIP is based on the 2004 RTP and implements the projects and programs included in the fiscal years (2006/07 – 2011/2012) of the 2004 RTP.

On May 12, 2005 a federal conformity determination was issued for the 2004 RTP and RTIP for those areas designated as non attainment under the 8-hour Ozone standard.

On March 30, 2006 a federal conformity determination for the 2004 RTP was issued for the South Coast Air Basin, which is designated as non attainment for PM<sub>2.5</sub>.



## **Summary of the 2006 RTIP Regional Emissions Analyses**

The projects in Amendment 06-04 are from the 2004 RTP, which is a conforming Plan. Amendment 06-04 does not include any new regionally significant projects beyond those currently included in the 2004 RTP, nor does it move a project from any modeling horizon year currently assumed in the 2004 RTP and 2006 RTIP. Furthermore, the design, concept and scope of the project do not differ significantly from what was described in the 2004 RTP. Allocating funds to these projects will not delay the implementation of projects in the 2004 RTP or 2006 RTIP.

The 2006 RTIP is consistent with the 2004 RTP and the regional emissions analyses for the 2006 RTIP updates the regional emissions analyses for the 2004 RTP. As such, SCAG is using the conformity analysis for the 2006 RTIP. The regional emissions analysis methodology for this amendment to the 2006 RTIP uses two sets of calculations. For pollutants with emissions budgets, the currently applicable budget is used to determine conformity. Only one pollutant in the SCAB (PM<sub>2.5</sub>) does not currently have a budget. Until the budget is established, the less than base year test is used for analysis. For all other pollutants, the budgets remain the same as described in the 2006 RTIP and 2004 RTP.

## **Reaffirmation of 2006 RTIP Conformity Test**

SCAG reaffirms the applicable conformity findings for the 2006 RTIP, which can be found at:

[http://www.scag.ca.gov/RTIP/final06/final\\_RTIP\\_vol2of3\\_Sec02\\_jul06.pdf](http://www.scag.ca.gov/RTIP/final06/final_RTIP_vol2of3_Sec02_jul06.pdf)

This reaffirmation covers the findings for all applicable pollutants, including regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs), applying the use of the latest planning assumptions and the latest approved emissions model (EMFAC2002), reaffirming consistency between the adopted 2006 RTIP and the adopted 2004 RTP, and reaffirming the process for interagency consultation and public participation.

The regional emissions analysis for the amendment was performed with the SCAG Regional Transportation Model used for the 2004 RTP and 2006 RTIP and utilizes the planning, socioeconomic and model assumptions from the 2004 RTP and 2006 RTIP. A summary of the regional emissions analysis (conformity finding) is tabulated below.

## **Conformity Findings**

SCAG has completed its analysis of the proposed changes to the 2006 RTIP. SCAG's findings for the approval of this amendment are as follows:

### **Overall**

**Statement of Fact:** Inclusion of this amendment in the 2006 RTIP would not change any other policies, programs and projects which were previously approved by the federal agencies on October 2, 2006.

**Finding:** SCAG has determined that the 2006 RTIP Amendment 06-04 is consistent with all federal and state requirements and complies with the federal conformity regulations.



**Regional Emissions Analysis – South Coast Air Basin (SCAB)**

**Finding:** The 2006 RTIP Amendment 06-04 regional emissions for Ozone precursors (NO<sub>x</sub>, ROG/VOC) are consistent with all applicable emissions budgets for all milestone, attainment, and planning horizon years (2003 Ozone SIP)

**Finding:** The 2006 RTIP Amendment 06-04 regional emissions for CO are consistent with all applicable emissions budgets for all milestone, attainment, and planning horizon years (2003 CO SIP).

**Finding:** The 2006 RTIP Amendment 06-02 regional emissions for NO<sub>2</sub> are consistent with all applicable emissions budgets for all milestone, attainment, and planning horizon years (2003 NO<sub>2</sub> SIP).

**Finding:** The 2006 RTIP Amendment 06-04 regional emissions for PM<sub>10</sub> precursors are consistent with all applicable emissions budgets for all milestone, attainment, and planning horizon years (2003 PM<sub>10</sub> SIP).

**Finding:** The 2006 RTIP Amendment 06-04 regional emissions for direct PM<sub>2.5</sub> and NO<sub>x</sub> are less than the baseline year (2002) for the 24-hour and the annual PM<sub>2.5</sub> standards in the SCAB.

**Timely Implementation of TCMs**

Only two non attainment areas in the SCAG region currently have TCMs, the Ventura County portion of the South Central Coast Air Basin and the SCAB. In the SCAB, the list of TCMs and the Timely Implementation Report used to track implementation of TCMs is comprehensively updated with each RTIP cycle. The most recent list of TCMs can be found in the 2006 RTIP.

**Finding:** The 2006 RTIP Amendment 06-04 does not change funding and timely implementation of SCAB TCM projects. All SCAB TCM projects in the federally approved conforming 2006 RTIP are given funding priority and are on schedule for implementation.

**Fiscal Constraint Analysis**

**Finding:** RTIP Amendment 06-04 includes the most recent financial plan for the 2006 RTIP. All projects listed in the 2006 RTIP (including the proposed amendment) are financially constrained for all fiscal years.

**Interagency Consultation and Public Involvement Analysis**

**Finding:** The prior regional conformity analysis leading to FHWA and FTA's approval on October 2, 2006 complied with all federal and state requirements for interagency consultation and public involvement as documented in Section V of Technical Appendix II of the 2006 RTIP. For RTIP Amendment 06-04 SCAG will undergo additional public involvement including solicitation via email for comments from the Transportation Conformity Working Group. In addition, Amendment 06-04 will be posted on SCAG's website ([www.scag.ca.gov](http://www.scag.ca.gov)) for a 30-day public comment period.



**Regional Emissions Analysis – South Coast Air Basin (SCAB)**

The South Coast Air Basin (SCAB) covers the urbanized portions of Los Angeles, Orange, Riverside, and San Bernardino counties, and is within the jurisdiction of the South Coast Air Quality Management District (SCAQMD).<sup>1</sup>

**OZONE – SUMMER (8HR)**

<b><u>ROG</u></b>	<b><u>YR 2008</u></b>	<b><u>YR 2010</u></b>	<b><u>YR 2020</u></b>	<b><u>YR 2030</u></b>
2006 RTIP	214.170	152.141	107.627	73.227
<b>BUDGET</b>	<b>216.000</b>	<b>155.000</b>	<b>155.000</b>	<b>155.000</b>
<b><u>NOx</u></b>	<b><u>YR 2008</u></b>	<b><u>YR 2010</u></b>	<b><u>YR 2020</u></b>	<b><u>YR 2030</u></b>
2006 RTIP	451.036	349.956	184.599	120.898
<b>BUDGET</b>	<b>464.000</b>	<b>352.000</b>	<b>352.000</b>	<b>352.000</b>

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget

**CARBON MONOXIDE (CO) - WINTER**

<b><u>CO</u></b>	<b><u>YR 2010</u></b>	<b><u>YR 2020</u></b>	<b><u>YR 2030</u></b>
2006 RTIP	1,818.099	863.286	530.587
<b>BUDGET</b>	<b>3,361.000</b>	<b>3,361.000</b>	<b>3,361.000</b>

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget

**NITROGEN DIOXIDE (NO<sub>2</sub>) - WINTER**

<b><u>NO<sub>2</sub></u></b>	<b><u>YR 2010</u></b>	<b><u>YR 2020</u></b>	<b><u>YR 2030</u></b>
2006 RTIP	449.577	205.988	133.050
<b>BUDGET</b>	<b>686.000</b>	<b>686.000</b>	<b>686.000</b>

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget

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<sup>1</sup> The emissions analysis provided is based on the 2006 RTIP.



**PM10 - ANNUAL AVERAGE**

	<u>YR 2006</u>	<u>YR 2010</u>	<u>YR 2020</u>	<u>YR 2030</u>
<b><u>ROG</u></b>				
2006 RTIP	247.337	189.905	106.868	72.584
<b>BUDGET</b>	<b>251.000</b>	<b>251.000</b>	<b>251.000</b>	<b>251.000</b>

**NOx**

2006 RTIP	537.405	418.716	193.109	125.797
<b>BUDGET</b>	<b>549.000</b>	<b>549.000</b>	<b>549.000</b>	<b>549.000</b>

**PM10**

2006 RTIP	159.065	155.829	151.834	152.313
<b>BUDGET</b>	<b>166.000</b>	<b>166.000</b>	<b>166.000</b>	<b>166.000</b>

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget

**PM2.5 - 24-HOUR**

	<u>YR 2010</u>	<u>YR 2020</u>	<u>YR 2030</u>
<b>BASE YEAR*</b>	<b>13.27</b>	<b>13.27</b>	<b>13.27</b>
PLAN	12.53	12.09	12.71
<b>DIFFERENCE</b>	<b>0.74</b>	<b>1.18</b>	<b>0.56</b>

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than base year

\* Base Year = 2002

**NOx - 24-HOUR**

	<u>YR 2010</u>	<u>YR 2020</u>	<u>YR 2030</u>
<b>BASE YEAR*</b>	<b>714.110</b>	<b>714.110</b>	<b>714.110</b>
PLAN	418.716	193.109	125.797
<b>DIFFERENCE</b>	<b>295.394</b>	<b>521.001</b>	<b>588.313</b>



**PM2.5 - ANNUAL**

	<u>YR 2010</u>	<u>YR 2020</u>	<u>YR 2030</u>
<b>BASE YEAR*</b>	<b>4,844</b>	<b>4,844</b>	<b>4,844</b>
PLAN	4,573	4,413	4,639
<b>DIFFERENCE</b>	<b>270</b>	<b>431</b>	<b>204</b>

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than base year

\* Base Year = 2002

**NOx - ANNUAL**

	<u>YR 2010</u>	<u>YR 2020</u>	<u>YR 2030</u>
<b>BASE YEAR*</b>	<b>260,650</b>	<b>260,650</b>	<b>260,650</b>
PLAN	152,831	70,485	45,916
<b>DIFFERENCE</b>	<b>107,819</b>	<b>190,165</b>	<b>214,734</b>

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than base year

\* Base Year = 2002

**Regional Emissions Analysis – Salton Sea Air Basin – Coachella Valley Portion****OZONE – SUMMER (tons/day)**

<u>ROG</u>	<u>YR 2007</u>	<u>YR 2010</u>	<u>YR 2013</u>	<u>YR 2020</u>	<u>2030</u>
2006 RTIP	3.985	3.361	2.867	2.234	1.838
<b>BUDGET</b>	<b>4.100</b>	<b>4.100</b>	<b>4.100</b>	<b>4.100</b>	<b>4.100</b>

**NOx**

2006 RTIP	11.085	9.295	7.613	4.913	3.460
<b>BUDGET</b>	<b>11.100</b>	<b>11.100</b>	<b>11.100</b>	<b>11.100</b>	<b>11.100</b>

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget

**PM10 - Annual Emissions (tons/day)**

<u>PM10</u>	<u>YR 2006</u>	<u>2010</u>	<u>2020</u>	<u>YR 2030</u>
2006 RTIP	8.726	8.937	9.325	9.715
<b>BUDGET</b>	<b>10.900</b>	<b>10.900</b>	<b>10.900</b>	<b>10.900</b>

Conformity finding requirement: RTP/RTIP emissions must be equal to or less than budget



**Regional Emissions Analysis – Mojave Desert Air Basin – San Bernardino County Portion**

**PM10 - Annual Emissions (tons/day)**

<b><u>PM10</u></b>	<b><u>YR 2010</u></b>	<b><u>2020</u></b>	<b><u>2030</u></b>
No Build	9.053	10.947	13.253
<b>Build</b>	<b>8.967</b>	<b>10.808</b>	<b>12.953</b>